

SCHOTTKY BARRIER RECTIFIER
VOLTAGE 100 Volts CURRENT 8 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

MECHANICAL DATA

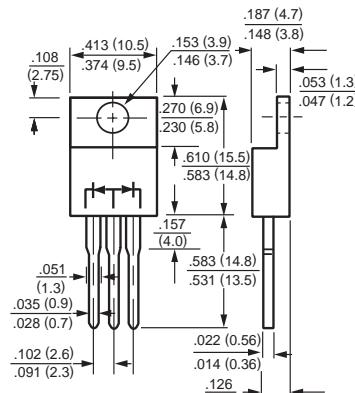
- * Case: To-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.



TO-220



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR8100A	UNITS
Maximum Recurrent Peak Reverse Voltage	VR _{RM}	100	Volts
Maximum RMS Voltage	VR _{MS}	70	Volts
Maximum DC Blocking Voltage	V _{DC}	100	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	I _O	8	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps
Typical Thermal Resistance (Note 1)	R _{θJC}	2.5	°C/W
Typical Junction Capacitance (Note 3)	C _J	450	pF
Operating Temperature Range	T _J	-65 to + 150	°C
Storage Temperature Range	T _{STG}	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SR8100A	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC	V _F	.77	Volts
Maximum Average Reverse Current @ T _c = 25°C at Rated DC Blocking Voltage	I _R	10	mAmps
@ T _c = 100°C		100	mAmps

NOTES : 1. Thermal Resistance Junction to Case.

2. Suffix "A" = Common Anode.

3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SR8100A)

